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NOTICE OF ALLOWANCE AND FEE(S) DUE

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08/10/2009

NXP, B.V. NXP INTELLECTUAL PROPERTY & LICENSING M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131

EXAMINER				
LE, LANA N				
ART UNIT	PAPER NUMBER			

2614

DATE MAILED: 08/10/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,133	12/23/2005	David B. Duperray	USO 30186 US2	5554

TITLE OF INVENTION: DISTORTRION/EFFICIENCY ADAPTATION IN A VARIABLE-DATA-RATE RADIO TRANSMITTER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/10/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correct maintenance fee notification	correspondence including the delow or directed other ations.	ng the Patent, advance on the nerwise in Block 1, by (rders and notification of a) specifying a new co	of ma rresp	aintenance fees wondence address;	ill be and/or	mailed to the current r (b) indicating a sepa	corres arate "I	pondence address as FEE ADDRESS" for
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M/S41-SJ	7590 08/10 CTUAL PROPERT		S	States addre	by certify that this Postal Service was to the Mail	s Fee(ith suf Stop	e of Mailing or Trans s) Transmittal is being ficient postage for fir 1SSUE FEE address 1) 273-2885, on the d	g depos st class above	sited with the United mail in an envelope , or being facsimile
1109 MCKAY I SAN JOSE, CA			[(Depositor's name)
571113051, 671	73131								(Signature)
			Ĺ						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		АТТО	RNEY DOCKET NO.	CON	NFIRMATION NO.
10/562,133 TITLE OF INVENTION	12/23/2005 N: DISTORTRION/EFFIG	CIENCY ADAPTATION	David B. Duperray I IN A VARIABLE-DA		RATE RADIOT		JSO 30186 US2 MITTER		5554
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nonprovisional	NO	\$1510	\$300		\$0		\$1810		11/10/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	\neg					
LE, L	ANA N	2614	455-114200						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	AND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	"Indication form led. Use of a Customer A TO BE PRINTED ON	data will appear on th	native ingle or ag attorn be pa type type an as	firm (having as a gent) and the name heavy or agents. If a rinted.	membes of unionam	p to le is 3lentified below, the d		nt has been filed for
Please check the appropri	riate assignee category or	categories (will not be p	rinted on the patent):	□ I	Individual 🗖 Co	rporati	on or other private gro	oup ent	ity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 						
_ ~ .	itus (from status indicated ns SMALL ENTITY statu		☐ b. Applicant is no	longe	er claiming SMAI	L EN	FITY status See 37 C	FR 1.2	7(a)(2)
1.1	nd Publication Fee (if requestroords of the United Sta								
	, <u>.</u>								
Typed or printed name					Registration N	o			
an application. Confiden	nation is required by 37 C titality is governed by 35 d application form to the ions for reducing this but Virginia 22313-1450. DC 313-1450.	U.S.C. 122 and 37 CFR	1.14. This collection is	estin	nated to take 12 n	ninutes	s to complete, includir	ng gath	ering, preparing, and

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M/S41-SJ 1109 MCKAY DR SAN JOSE, CA 95			2614 DATE MAILED: 08/10/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 491 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 491 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/562,133	DUPERRAY, DAVID B.	
Notice of Allowability	Examiner	Art Unit	
	Lana N. Le	2614	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to <u>4/16/09</u> .			
2. The allowed claim(s) is/are <u>1-12</u> .			
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No cuments have been received in this i	natio n al stage applica	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the re	quirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			IOTICE OF
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t 6. ☐ DEPOSIT OF and/or INFORMATION about the depo 	son's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawin he header according to 37 CFR 1.121(d	office action of ngs in the front (not the	
attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),	
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7. ☐ Examiner's Amendn		
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ☑ Examiner's Stateme 9. ☐ Other	ent of Reasons for Allo	owance

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

2. The cited prior art fail to disclose or suggest for the reason in applicant's remarks

filed 4/16/2009.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Baldwin (US 6,735,420), Transmit Power Control for Multiple Rate Wireless Communications, Baldwin disclose in higher modulation schemes are more susceptible to distortion so that maximum distortion levels are likely to be reached, the new constellation type used for higher data rates will most likely have a lower target power control value.
- Thomson (US 6,130,916), Method and Apparatus for Improving a Transmission Data Rate of Baseband Data in a Wireless Network
- Doi (US 6,928,272), Distortion Compensating Circuit for Compensating Distortion
 Occurring in Power Amplifier

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- Boer et al (US 7,499,486), Data Transmission Rate Adaptation in a Wireless Communication System

- Berliner et al (US 6,898,415), System and Method for Reducing Multipath Distortion
 in Wireless Distance Measurement Systems
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lana N. Le whose telephone number is (571) 272-7891. The examiner can normally be reached on M-F 10:00-18:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis A. Kuntz can be reached on (571) 272-7499. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lana N. Le/ Primary Examiner, Art Unit 2614 Application/Control Number: 10/562,133

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